

**WHAT IS CLAIMED IS:**

- 1           1.       A battery terminal comprising:  
2                   a body having a top surface, an opposing bottom surface, and a first  
3       groove extending within the body proximate the bottom surface.
- 1           2.       The battery terminal of claim 1, wherein the first groove includes a  
2       base portion having a first width and an opening having a second width less than the  
3       first width.
- 1           3.       The battery terminal of claim 2, wherein the body includes a  
2       longitudinal axis extending substantially perpendicular between the top and bottom  
3       surfaces, the first groove defining a first groove vector extending substantially  
4       perpendicular between the base and the opening, the first groove vector being  
5       substantially perpendicular to the longitudinal axis.
- 1           4.       The battery terminal of claim 3 wherein the distance between the base  
2       of the first groove and the bottom surface is less than the distance between the  
3       opening of the first groove and the bottom surface.
- 1           5.       The battery terminal of claim 3, wherein the distance between the base  
2       of the first groove and the bottom surface is greater than the distance between the  
3       opening of the first groove and the bottom surface.
- 1           6.       The battery terminal of claim 2, further including a second groove  
2       located closer to the top surface than the first groove.
- 1           7.       The battery terminal of claim 6, wherein the body includes a frustum  
2       extending downward from the top surface, a bottom portion adjacent the bottom  
3       surface and a spline located between the frustum and the bottom portion, wherein the  
4       first groove is located in the bottom portion and the second groove is located  
5       proximate the spline.

1           8. The battery terminal of claim 7, wherein the second groove is located  
2 within the spline.

1           9. The battery terminal of claim 6, wherein the body includes a base portion  
2 with an insert embedded therein and bottom portion extending downward from the  
3 base portion, wherein the first and second grooves are located within the bottom  
4 portion and base portion respectively.

1           10. A battery comprising:  
2                 a housing having an outer surface and an inner surface defining an  
3 interior; and  
4                 a terminal connected to the housing, having a first portion extending  
5 above the housing, a engagement portion engaged with the housing and a third portion  
6 in fluid communication with the interior of the housing, the terminal including a  
7 longitudinal axis extending through the terminal and substantially perpendicular to the  
8 portion of the housing through which the terminal is engaged, the terminal including a  
9 first groove within the engagement portion, the first groove including an opening  
10 having a first width, the first groove also including a portion having a width that is  
11 greater than the first width of the opening.

1           11. The battery of claim 10, wherein the terminal includes a second groove  
2 including a second opening having a second opening width, the second groove  
3 includes a second portion having a second portion width that is greater than the  
4 second opening width.

1           12. The battery of claim 10, wherein the first groove includes a first  
2 groove vector extending from the base of the groove toward the opening of the  
3 groove, wherein the first groove vector is parallel to the longitudinal axis.

1           13. The battery of claim 10, wherein the first groove includes a first  
2 groove vector extending from the base of the groove toward the opening of the  
3 groove, wherein the first groove vector is perpendicular to the longitudinal axis.

1           14.     The battery of claim 12, wherein the second groove includes a second  
2 groove vector extending from the base of the second groove toward the opening of the  
3 second groove, wherein the second groove vector is parallel to the longitudinal axis.

1           15.     The battery of claim 12, wherein the second groove includes a second  
2 groove vector extending from the base of the second groove toward the opening of the  
3 second groove, wherein the second groove vector is perpendicular to the longitudinal  
4 axis.

1           16.     The battery of claim 11 wherein the housing includes an edge  
2 proximate each groove.

1           17.     A battery terminal comprising:  
2                     a body having a first portion extending and an engagement portion, a  
3 the body including a longitudinal axis extending through the body, the body including  
4 a first groove within the engagement portion, the first groove including an opening  
5 having a first width, the first groove also including a portion having a width that is  
6 greater than the first width of the opening.

1           18.     The battery terminal of claim 17, further including a second groove  
2 including a second opening having a second opening width, the second groove  
3 includes a second portion having a second portion width that is greater than the  
4 second opening width.

1           19.     The battery terminal of claim 17, wherein a vector extending between  
2 the base of the first groove and the opening of the first groove is parallel to the  
3 longitudinal axis of the body.

1           20.     The battery terminal of claim 18, wherein a vector extending between  
2 the base of the first grooves and the opening of the first groove is parallel to the  
3 longitudinal axis and wherein a second vector extending between the base of the  
4 second groove of the body.

1           21.     A battery comprising:  
2                     a terminal including a groove extending 360 degrees therearound, the  
3     groove including a base and an opening;  
4                     a plastic housing having an outer surface and an inner surface defining  
5     an interior, the terminal being molded within the plastic housing and having a portion  
6     extending outwardly from one outer surface of the plastic housing, the plastic housing  
7     having a sealing bead extending into the opening of the groove and filling the area  
8     within the groove.

1           22.     The battery of claim 21, wherein, the groove defines a groove vector  
2     extending substantially perpendicular through the area defined by the groove opening,  
3     the groove vector being substantially perpendicular to the one outer surface of the  
4     plastic housing.

1           23.     The battery of claim 22, wherein, the plastic container includes an edge  
2     proximate the groove.

1           24.     The battery of claim 23, wherein, the edge of the plastic container is  
2     within .5 inches of the groove.

1           25.     The battery of claim 23, wherein, the edge of the plastic container is  
2     within .25 inches of the groove.

1           26.     The battery of claim 23, wherein the edge is less than .25 inches from  
2     the groove.

1           27.     The battery of claim 22, wherein the opening of the groove has a first  
2     width, the groove also including a portion having a width that is greater than the first  
3     width.

1           28.     The battery of claim 22, wherein the opening of the groove has a first  
2     width that is at least as great as the width of any other portion of the groove.

1           29.     The battery of claim 21, wherein the groove is proximate the outer  
2 surface of the container.

1           30.     The battery of claim 29, wherein the terminal includes a second groove  
2 proximate the inner surface of the container.

1           31.     The battery of claim 13, wherein the second groove includes a second  
2 groove vector extending from the base of the second groove toward the opening of the  
3 second groove, wherein the second groove vector is parallel to the longitudinal axis.

1           32.     The battery of claim 13, wherein the second groove includes a second  
2 groove vector extending from the base of the second groove toward the opening of the  
3 second groove, wherein the second groove vector is perpendicular to the longitudinal  
4 axis.